SECRET

Eng 8-658
OC 7746

Director of Logistics

11 JUN 1958

Director of Communications

Contract 605 - [redacted]

1. This Office has a requirement for a series of parabolic dish antennas and associated R.F. feeds. The [redacted] has submitted a proposal for the development and fabrication of these devices. 25X1 25X1

2. The contractor proposes to supply six parabolic dishes, five of which will be of a breakdown type and ten ancillary R.F. feeds to cover a frequency range of 600 to 6000 mc. This proposal has been carefully reviewed and is considered to satisfactorily fulfill our requirement.

3. It is requested that a new Task 4 under Contract 605 be initiated with the [redacted] in accordance with the attached documents for development and fabrication of this equipment. Attached is Requisition No. MSB 58-538 dated 10 June 1958 indicating that the allotment to be charged for this work is 8/7912-50-600. Funds in the amount of $39,324.00 have been encumbered for this project. The association of the Agency with the contract and the equipment is classified SECRET, although the actual equipment and engineering report are UNCLASSIFIED. The project engineer for this work is [redacted] 25X1

[redacted] 25X1

Attachments:

1) Requisition No. MSB 58-538
2) Estimated Cost Analysis, Enclosure A
3) Contractor's Letter dated 4 June 1958
4) Contractor's Proposal - CEP-1163

OC-E/R&D-EP/LHG:wlj (10 June 1958)

cc: R&D Subject File
OC-A
[redacted] 25X1
MSB (2)
R&D Vital File
R&D Obligation File
SPD
OC-E Chrono
R&D Chrono
EP Chrono

COORDINATION:

R&D

OC-E

OC-A

SPD

OC

DD/CO

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Estimated Cost Analysis
600-6000 mc Receiving Dish
Antenna

ENCLOSURE (A)
Letter to U.S.Government
Dated 4 June 1958

25X1

Development & Construction of 6 Antennas, Progress Reports & 15 Comm Type Instr. Books

		Rate	Hours	Amount
Salaries & Wages				
Assistant Engr.	3525			$ 5,825X1
Laboratory Ass'ts	1416			1,793
Drafting	1413			1,322
Model Shop				2,517
Publications				
Writer	3855			431
Drafting	1413			274
Photo	1802			49
Art	1793			56
Clerical				152
Sub-total Publications				962
Total Salaries & Wages				$12,463
Departmental Overhead				
Engineering		110%		6,456
Lab Ass'ts		60		1,076
Drafting		90		1,190
Model Shop		125		3,146
Publications		115		1,106
Departmental Overhead Expense				$12,974
Material				6,500
Handbook Reproduction Cost				135
Sub-total - Labor, Overhead & Other Costs				32.072

25X1

Total Estimated Selling Price $39,324

B.R. #5396

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[redacted]

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U. S. Government

Attention: Gentlemen

Subject: 600-6000 mc Receiving Dish Antenna, Submission of Quotation for

Enclosure: (A) Estimated Cost Analysis, in triplicate

(B) [redacted] Equipment Proposal, CEP No. 1163, in triplicate

25X1

Gentlemen:

Pursuant to a recent request, the bidder submits the following quotation together with its estimated cost analysis, Enclosure (A), and engineering proposal, Enclosure (B):

Item	Description	Estimated Selling Price
1	Development and Construction of Five (5) Sectionalized and One (1) Solid Surface Antennas	$39,324
2	Monthly Letter Type Progress Reports	Price Included in Item 1
3	Commercial Type Instruction Books, Quantity 15	Price Included in Item 1
	Total Estimated Selling Price	$39,324

The above equipment shall be in accordance with specifications as noted in the bidder's engineering proposal, Enclosure (B).

This quotation is predicated upon the award of a mutually acceptable cost-plus-fixed-fee type of contract.

Delivery of the above items can be made in accordance with the following schedule:

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Item	Description	Quantity	Delivery Date
1	Five (5) Sectionalized and One (1) Solid Surface Antennas		Six (6) months after receipt of contract award
2	Monthly Letter Progress Reports		As required
3	Commercial Type Instruction Books	15	With Item 1

In the event of award of contract based on this proposal, it is requested that provision be made for payments at intervals of not more than thirty (30) days, based on cost incurred and applicable proportion of the fixed fee.

The bidder represents that he has not employed or retained a company or person (other than full time employees) to solicit or secure this contract, and agrees to furnish information relating thereto as requested by the Contracting Officer.

Favorable consideration of the enclosed quotation is respectfully requested. Representatives of the bidder will be readily available in the event that further contractual or technical discussion is necessary. In matters pertaining to this quotation, please reference the subject proposal and address all inquiries to Mr.

25X1

Very truly yours,

25X1

Contract Administrator

GWB/NKG/jjm

SECRET

Report No. CEP-1163
Copy No. 6
Bid Request No. 5396

PROPOSAL FOR

PARABOLIC DISH ANTENNAS

28 MAY 1958

Prepared For

THE U. S. GOVERNMENT

STAT

A PUBLICATION OF

THE RESEARCH AND DEVELOPMENT LABORATORIES

Department 12

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Printed in the United States of America

Proposal For
PARABOLIC DISH ANTENNAS

This is a proposal for the design, development and fabrication of parabolic dish antennas and their associated feeds. Six dishes will be supplied, five of which will be the breakdown type and the sixth will have a solid surface reflector. Ten feeds which cover the frequency range of 600 to 6000 mc will be supplied. The dishes will be 4 feet in diameter and the feeds will incorporate the logarithmically periodic antenna design methods. The equipment to be delivered will satisfy the following specifications:

(1) The "breakdown" type aluminum dishes will be parabolic in shape with a diameter of 4 feet and will disassemble to fit into containers with outside dimensions of 20" by 20" by 12". This will be accomplished by breaking down the dish into 9 parts. The center portion will be a spun aluminum segment. The 8 outer segments will be stamped by the hydroform process.

(2) The solid aluminum dish will be 4 feet in diameter with the same focal length as the dishes in (1) and will be of the spun aluminum type.

(3) The dishes will be supported on a tripod which allows the height of the top of the dish to be adjusted from 4 feet to 8 feet.

(4) The dish and tripod will be designed for indoor operation only.

(5) R-f feeds to cover the frequency range of 600 to 6000 mc will be supplied. They will have a 50 ohm input and a VSWR of less than 3-to-1 over the frequency range. They will be mounted so that the feeds may be rotated to obtain either horizontal or vertical polarization.

(6) The gain of the dish will be approximately 15 db at 600 mc, and 34 db at 6000 mc. The side lobes will be less than 10 db.

(7) A 30 foot length of semi-flexible aluminum transmission line with end fittings will be supplied. Flexibility of the line will permit use of the containers mentioned above.

(8) A simple azimuth indicator will be supplied.

The feeds for the dishes will be similar to that described in [redacted] Engineering ProposSTAT 1071 entitled, "A Transportable Inflatable Antenna System." Figure 2-1 of that proposal shows a sketch of a sheet trapezoidal tooth logarithmically periodic antenna which is unidirectional and ideally suited as a feed for a reflector type antenna. The feed will be supported by three arms attached to the rim of the dish.

Monthly letter type progress reports and 15 commercial style instruction books will be supplied. All items will be delivered within 6 months after date of award.